Anyone can handle Data...

PHOTOMECHANISMS Incorporated

HUNTINGTON STATION, LONG ISLAND, NEW YORK

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Sure, anyone can handle Data... in some forms

Books, punched cards, magnetic tape — you name it—you'll find plenty of experts to handle data in these forms. BUT, experts are few in PHOTOGRAPHIC DATA HANDLING, one of the fields in which PHOTOMECHANISMS has distinguished itself.

Our areas of special competence include:

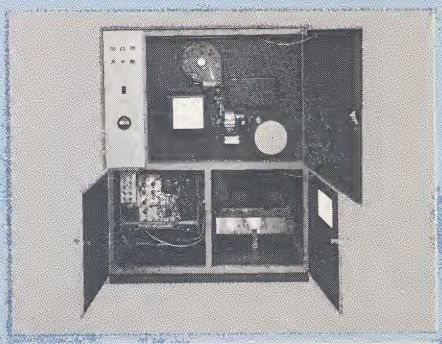
- Engineering of Photographic Systems
  - Photographic data recording
  - Rapid, automated photographic processing
  - Display and presentation of processed data
  - Film handling systems
- Instrumentation
  - Optical test and alignment fixtures
  - Photo-optical and servo control instrumentation and simulators

If you have a problem involving the recording, conversion, or presentation of transient data — PHOTOMECHANISMS can solve it for you.

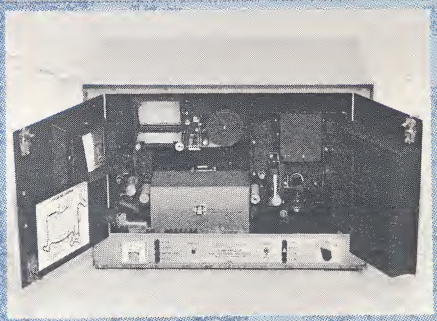
PHOTOMECHANISMS' research laboratories are continually searching for new ways to apply the use of light sensitive materials to data handling problems. In addition to the use of both standard and exotic silver halide techniques, we can solve your data handling problem through the use of electrostatic, photoconductive and similar advanced techniques and the use of such materials as photo-sensitive plastics and diazos.

Our capabilities are strongly supported by the knowledge and experience of our affiliate, F. B. MACLAREN & CO., INC.—experts in the design and manufacture of instrument servos, analog computers, and electronic amplifiers.

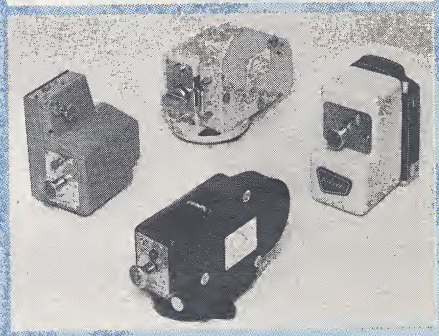
The particular system you need may not yet have been built. If it hasn't, PHOTOMECHANISMS can build it. We have designed and built a wide variety of special data handling equipment for the military services, for military contractors, and for commercial organizations. Among these are:



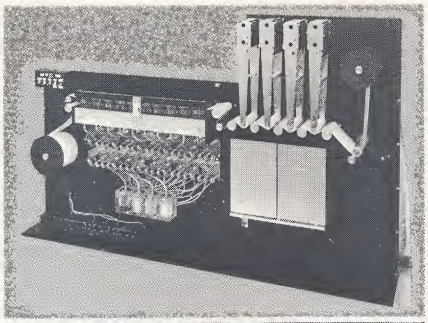
A self-contained monitor/camera/processor/projector/printer that records generated characters, character displays, or TV pictures on high speed film which it instantly processes and prints on electrostatic paper. Combines the speed and sensitivity of silver halide recording with the economy and simplicity of electrostatic printing.



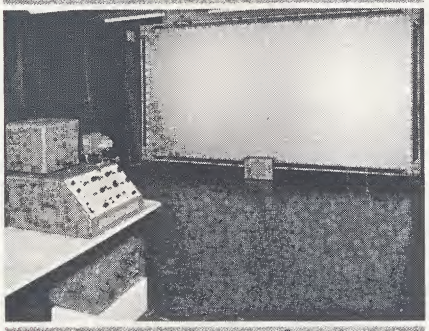
A ground station system for closely controlled processing of 70 mm. film. Photographs displayed data, develops, fixes, washes, and dries film and presents it for study in an illuminated viewer in only 90 seconds. Performs continuous processing at 20 inches per minute.



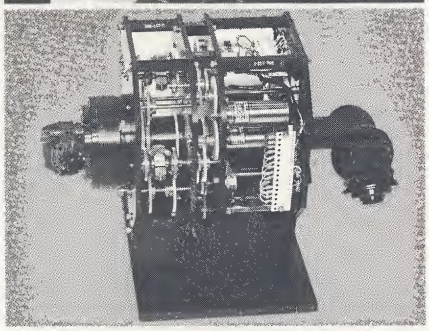
A complete line of 16 and 35 mm. cameras for medical x-ray diagnosis of complex body organ functions at rates up to 60 frames/second. Synchronization of x-ray emission and camera shutter ensures low radiation dosage.



A variable speed processor-viewer that accepts and processes exposed film at speeds up to 50 feet per minute and presents it for viewing even before processing is complete. Processing rate can be matched to data input rate by simple changes of valve settings.



A shellburst simulator that teaches students to direct artillery fire. A typical combination of optical, photographic, analog computer and servo techniques, this training device superimposes simulated shellbursts on realistic terrain and permits the student to observe the results of his aiming adjustments on a large viewing screen. *



A servoed optical scanner that provides a realistic image of a terrain model or slide transparency as viewed at various angles. Designed for training astronauts, the system can be translated in three orthogonal directions to simulate observer translation and change of altitude. Wide angle fields of view up to 98° can be presented at a fixed image plane. **

These are merely samples of the ways in which PHOTOMECHANISMS' engineers and scientists have combined advanced techniques of electronics, optics, and photography for the solution of data handling problems.

If one of the devices described above can solve your problem, we'll be glad to give you more information about it, and quote price and delivery. If your problem needs a brand new solution, we'll be glad to show you how it can be done.

* In collaboration with F. B. MacLaren & Co., Inc.
** In collaboration with Scanoptic, Inc. and F. B. MacLaren & Co., Inc.

1

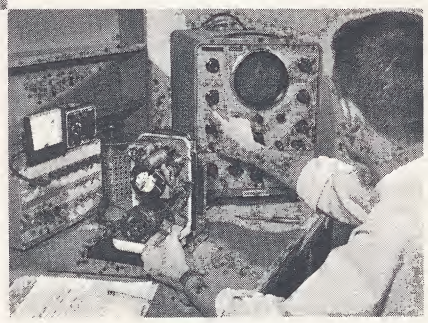
PHOTOMECHANISMS HAS THE SKILLS AND FACILITIES TO PRODUCE THE INSTRUMENT YOU NEED.

Once your data handling problem has been solved on the drawing board, PHOTOMECHANISMS' production staff, working in modern, fully equipped shops and laboratories, is ready to produce the equipment you need in any quantity.

1 Final assembly of a complex camera-viewer in Photomechanisms' shop.

2 Electrical phasing of a cinefluorographic camera.

3 Testing film characteristics in Photomechanisms' sensitometry lab.



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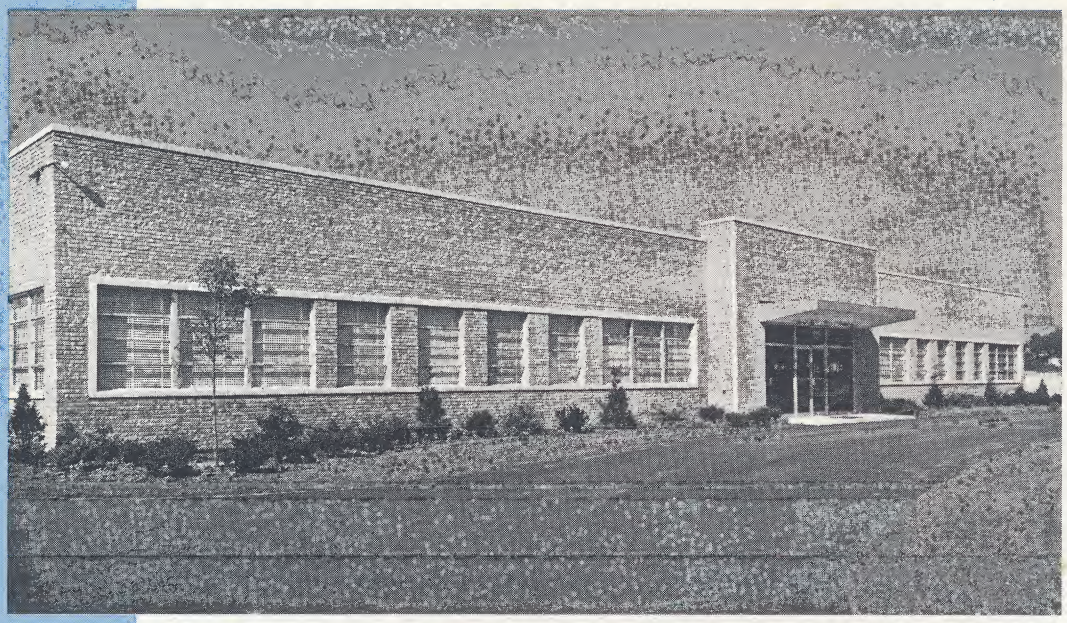

PHOTOMECHANISMS modern 14,000 square foot plant in Huntington Station, Long Island.

Clients who have benefited by PHOTOMECHANISMS' unique problem solving ability include:

Airborne Instruments Laboratory
Arctic Institute of North America
Argentine Naval Commission
Armour Research Foundation
Bausch and Lomb Optical Co
Bankers Trust Company
Bendix Corporation
Brookhaven National Laboratory
California Institute of Technology
  Jet Propulsion Laboratory
Chase Manhattan Bank
Cornell University
Douglas Aircraft Company
Eastman Kodak Company
Ford Motor Company
  Philco Corporation
  Aeronutronic Division
Franklin X-Ray Corporation
General Electric Company
General Dynamics/Fort Worth
General Motors Corporation
Houston Fearless Corporation
International Business Machines Corp.
The Johns Hopkins Hospital
Kalvar Corporation
Laboratory for Electronics, Inc.
  Tracerlab/Keleket
Land-Air, Inc.
Loral Electronics Corporation
Melpar, Incorporated
Motorola, Inc.
Picker X-Ray Corporation
Polaroid Corporation
Radio Corporation of America
Raytheon Company
Republic Aviation Corporation
Sanders Associates, Inc.
Sperry Gyroscope Company
U.S. Air Force
U.S. Army
  Chemical Corps
  Signal Corps
U.S. Navy
  Navy Training Device Center
  Naval Submarine Base
U.S. Weather Bureau
University of Alaska
University of California
  Lawrence Radiation Laboratory
Westinghouse Electric Corporation
Weston Instruments & Electronics
  Division of Daystrom, Inc.
Xerox Corporation
X-Ray & Radium, Ltd.

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15 Stepar Place, Huntington Station, L. I., New York
(516) HA 3-4411